

CONTRACT

SPECIAL PROVISIONS

Project No.: SP-0046(7)0

Name: SR-46, Chip Seal Coat

County: San Juan

Bid Opening: April 22, 2003

Date



2002 - U.S. Standard Units (Inch-Pound Units)

Table of Contents

SP-0046(7)0

- I. 2002 Standard Specifications for Road and Bridge Construction including Changes One and Two
- II. List of Revised Standard Specifications
- III. List of Revised Standard Drawings
- IV. Materials Minimum Sampling and Testing
- V. Notice to Contractors (Inserted by Advertising)
- VI. Equal Opportunity (State Projects)
- VII. Bidding Schedule (Inserted by Advertising)
- VIII. Measurement and Payment (Inserted by Design Engineer)
- IX. PDBS Project Summary Report (Inserted by Design Engineer)
- X. PDBS Detailed Stationing Summaries Report (Inserted by Design Engineer)
- XI. Location Map (Inserted by Design Engineer)
- XII. Typical Sections or Detail Sheets (Inserted by Design Engineer)
- XIII. Standard Drawing Index (updated by Design Engineer)
- XIV. Special Provisions (Inserted by Design Engineer)
 - 1. 00555M Prosecution and Progress
 - 2. 00725M Scope of Work
 - 3. 01554M Traffic Control
 - 4. 02742S Project Specific Surfacing Requirements
 - 5. 02745M Asphalt Material
 - 6. 02785M Chip Seal Coat

I. 2002 Standard Specifications

The State of Utah Standard Specifications for Road and Bridge Construction, U.S. Standard Units (Inch Pound Units) CSI Format, Edition of 2002 with Changes One and Two included applies on this project.

II. List of Revised Standard Specifications

Change One – Included in 2002 Standard Specifications

Revised August 29, 2002

Section 00570 Articles 1.2 A 69, A 71 b (deleted)
Section 00727 Articles 1.1 D; 1.5 B; 1.9; 1.10; 1.16 B, C; 1.18 B
Section 01574 Articles 1.2 B
Section 02721 Articles 1.2 D (added), H (replaced), I (deleted); 1.6 B1; 2.1 A Table 3; 3.2 C
Section 02741 Articles 3.8 E 2 a, b
Section 02821 Articles 3.1 A
Section 02892 Articles 1.5 A, B
Section 02936 Articles 1.4; 1.5 C
Section 03152 Articles 1.2 P, Q; 2.2 A, B
Section 05120 Articles 1.4 A (deleted), 3.3 A
Section 16525 Articles 1.6 A, B

Change Two – Included in 2002 Standard Specifications

Revised December 19, 2002

Section 01561 Article 3.1 A
Section 02075 Article 2.7 A
Section 02372 Article 2.1 A 4
Section 02455 Article 3.3 B 2
Section 02785 Article 3.2 C
Section 02861 Article 3.3 A
Section 03055 Articles 1.2 P (inserted), 2.3 B, 2.4 (deleted), 2.7 A 1 a-e (added), 2.7 B 2 (added), 2.8 A 1 a, 2.8 A 2 (deleted), 2.9 A3, 3.2 A Table, 3.2 C, 3.7 A 3, 3.8 C 1, 3.9 A-B, 3.10, 3.11 B 1, 3.11 B 3
Section 07922 Article 2.1 Table 1

III. Listing of Revised Standard Drawings

Change One

Revised December 19, 2002

AT 7	Polymer Concrete Junction Box Details	12/19/2002
BA 1A	Precast Concrete Full Barrier Standard Section	12/19/2002
BA 1B	Precast Concrete Full Barrier Standard Section	12/19/2002
BA 3	Cast In Place Constant Slope Barrier	12/19/2002
BA 4B	Beam Guardrail Installations	12/19/2002
BA 4C	Beam Guardrail Anchor Type I	12/19/2002
CC 6	Crash Cushion Type E Sand Barrel Details	12/19/2002
DG 3	Maximum Fill Height and End Sections for HDPE And PVC Pipes	12/19/2002
DG 4	Pipe Culverts Minimum Cover	12/19/2002
EN 4	Temporary Erosion Control (Drop-Inlet Barriers)	12/19/2002
GW 1	Raised Median and Plowable End Section	12/19/2002
PV 2	Pavement Approach Slab Details	12/19/2002
SL 13	Traffic Counting Loop Detector Details	12/19/2002
SN 2	Flashing School Sign	12/19/2002
SN 4	Flashing Stop Sign	12/19/2002
SN 5	Typical Installation For Milepost Signs	12/19/2002
SN 8	Ground Mounted Timber Sign Post (P1)	12/19/2002
ST 1	Object Marker "T" Intersection and Pavement Transition Guidance	12/19/2002
ST 7	Pavement Markings and Signs at Railroad Crossings	12/19/2002
SW 3A	Precast Concrete Noise Wall 1 of 2	12/19/2002
SW 3B	Precast Concrete Noise Wall 2 of 2	12/19/2002
SW 4A	Precast Concrete Retaining/Noise Wall 1 of 2	12/19/2002

IV. Materials Minimum Sampling and Testing

Follow the requirements of the Current Materials Minimum Sampling and Testing Manual:

Materials Minimum Sampling and Testing Manual reference can be found from the UDOT Web Site at:

<http://www.dot.utah.gov/esd/Manuals/Materials/MaterialsSampling.htm>

**For UDOT employees the Manual can also be found on the Shared Drive at:
\Shared\Engineering Services\Manuals\Materials (W drive for the Complex
and R drive for the Regions)**

V. Notice to Contractors



NOTICE TO CONTRACTORS

Sealed proposals will be received by the Utah Department of Transportation UDOT/DPS Building (4th Floor), 4501 South 2700 West, Salt Lake City, Utah. 84114-8220, until 2 o'clock p.m. Tuesday, April 22, 2003, and at that time the download process of bids from the USERTrust Vault to UDOT will begin, with the public opening of bids scheduled at 2:30 for CHIP SEAL COAT of SR-46, CHIP SEAL COAT in SAN JUAN County, the same being identified as State Maintenance Project No: SP-0046(7)0.

Federal Regulations:

Wage Rate Non-Applicable.

Project Location: 10 Miles of Route: 0046 from R.P. 0 to R.P. 10

The principal items of work are as follows (for all items of work see attachment):

- Chip Seal Coat, Type C
- Emulsified Asphalt HFMS-2
- Pavement Marking Paint

The project is to be completed: in 10 Working Days.

Other Requirements:

All project bidding information, including Specifications and Plans, can be viewed, downloaded, and printed from UDOT's Project Development Construction Bid Opening Information website, <http://www.dot.utah.gov/cns/bidopeninfo.htm>. To bid on UDOT projects, bidders must use UDOT's Electronic Bid System (EBS). The EBS software and EBS training schedules are also available on this website.

Project information can also be reviewed at the main office in Salt Lake City, its Region offices, and its District offices in Price, Richfield, and Cedar City.

Project Plans cannot be downloaded or printed from the website unless your company is registered with UDOT. Go to UDOT's website to register. Unregistered companies may obtain the Specifications and Plans from the main office, 4501 South 2700 West, Salt Lake City, (801) 965-4346, for a fee of \$35.00, plus tax and mail charge, if applicable, none of which will be refunded.

As required, a contractor's license must be obtained from the Utah Department of Commerce.

Each bidder must submit a bid bond from an approved surety company on forms provided by the Department; or in lieu thereof, cash, certified check, or cashier's check for not less than 5% of the total amount of the bid, made payable to the Utah Department of Transportation, showing evidence of good faith and a guarantee that if awarded the contract, the bidder will execute the contract and furnish the contract bonds as required.

The right to reject any or all bids is reserved.

If you need an accommodation under the Americans with Disabilities Act, contact the Construction Division at (801) 965-4346. Please allow three working days.

Additional information may be secured at the office of the Utah Department of Transportation, (801) 965-4346.

Dated this 05th day of April, 2003.

UTAH DEPARTMENT OF TRANSPORTATION
John R. Njord, Director

Revised Date:

VI. EQUAL OPPORTUNITY (STATE PROJECTS)

Selection of Labor:

During the performance of this contract, the Contractor shall not discriminate against labor from any other State, possession, or territory of the United States.

Employment Practices:

During the performance of this contract, the Contractor agrees as follows:

The Contractor will not discriminate against any employee or applicant for employment because of race, religion, sex, color, national origin, age, or disability. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, religion, sex, color, national origin, age, or disability. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provide by the State Highway Department setting forth the provisions of this nondiscrimination clause.

The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, sex, color, national origin, age, or disability.

The Contractor will send to each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State Highway Department advising the said labor union or worker' representative of the Contractors commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further State contracts.

The Contractor will include the provisions of this Section in every subcontract or purchase order so that such provision will be binding upon each Subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the State Highway Department may direct as a means of enforcing such provisions including sanctions for noncompliance.

VII. Bidding Schedule

Utah Department of Transportation

Bidder's Schedule

Bid Opening Date: 4/22/2003

Project Number: SP-0046(7)0

Project Name: SR-46, CHIP SEAL COAT

Description: CHIP SEAL COAT

Funding: MAINTENANCE

Region: REGION 4

County: SAN JUAN

#	Item	Description	Quantity	Unit
10 - ROADWAY				
1	012850010	Mobilization	1	lump sum
2	015540005	Traffic Control	1	lump sum
3	027650020	Pavement Message Paint	1	each
4	027650050	Pavement Marking Paint	950	gallon
5	027850030	Chip Seal Coat, Type C	153472	square yard
6	027850070	Emulsified Asphalt HFMS-2	291	ton

Note: Item numbers ending with "" or "P" identify a change to the Standard Specification, Supplemental Specifications or Measurement and payment. Read all related documents carefully.

VIII. Measurement and Payment

MEASUREMENT AND PAYMENT

SP-0046(7)0

The Department will measure and pay for each bid item as detailed in this section.
Payment is contingent upon acceptance by the Department.

Items are listed by Specification and in tables as follows:

Item #	Bid item number	Bid Item Name	Unit of measurement and payment
Additional information goes here.			

1	012850010	Mobilization	Lump sum
	Payment	Amount Paid	When Paid
	First	The lesser of 25% of Mobilization or 2.5% of contract	With first estimate
	Second	The lesser of 25% of Mobilization or 2.5% of contract	With estimate following completion of 5% of contract
	Third	The lesser of 25% of Mobilization or 2.5% of contract	With estimate following completion of 10% of contract
	Fourth	The lesser of 25% of Mobilization or 2.5% of contract	With estimate following completion of 20% of contract
	Final	Amount bid in excess of 10% of contract price.	Project Acceptance-Final

2	015540005	Traffic Control	Lump Sum
	Payment	Amount Paid	When Paid
	One	25% of the bid item amount	With first estimate
		Remaining portion of bid item paid as a percentage of the contract completed	With each estimate

3	027650020	Pavement Message Paint	Each
In place, measurement - Painted Pavement Messages: A. Letter = one message. B. Arrow = one message. C. Multi-headed arrow = one message per arrow. D. School crossbars = one message per 24 inch x 10 ft bar. E. Crosswalk = two message per lane and two messages per shoulder. F. Stop Bar = one message per lane and one message per shoulder. G. Railroad crossing markings = seven messages per lane. 1. 'R' = one message each (two required). 2. 'X' = two messages. 3. Transverse Bar = one message each (two required). 4. Stop Bar = one message.			
Payment: A. The Department will not pay for removal of unauthorized, smeared, or damaged markings. B. Price reduction for paint application rate:			
Rate		Pay Factor	
At the specified rate		1.0	
1-10 percent below the specified rate		0.75	
11-15 percent below the specified rate		0.50	
More than 15 percent below the specified rate		May be accepted at 0.40 or required to be repainted.	

4	027650050	Pavement Marking Paint	Gallon
In place, Payment: A. The Department will not pay for removal of unauthorized, smeared, or damaged markings. B. Price reduction for paint application rate:			
Rate		Pay Factor	
At the specified rate		1.0	
1-10 percent below the specified rate		0.75	
11-15 percent below the specified rate		0.50	
More than 15 percent below the specified rate		May be accepted at 0.40 percent or required to be repainted.	

5	027850030	Chip Seal Coat, Type C	Square yard
In place. Include in this item cover material, blotter material, and flush coat. Emulsified asphalt paid separately.			

6	027850070	Emulsified Asphalt HFMS-2	Ton
----------	------------------	----------------------------------	------------

IX. PDBS Project Summary Report

Summary Report
Project: SP-0046(7)0
SR-46, CHIP SEAL COAT

Version: 1

Detail	Alt Group	Alt #	Description		
10 - ROADWAY	0	0			
	Item Number	Description		Qty	Unit
	012850010	Mobilization		1	Lump
	015540005	Traffic Control		1	Lump
	027650020	Pavement Message Paint		1	Each
	027650050	Pavement Marking Paint		950	gal
	027850030	Chip Seal Coat, Type C		153,472	sq yd
	027850070	Emulsified Asphalt HFMS-2		291	Ton

X. PDBS Detailed Stationing Summaries Report

Detailed Report
SP-0046(7)0
SR-46, CHIP SEAL COAT

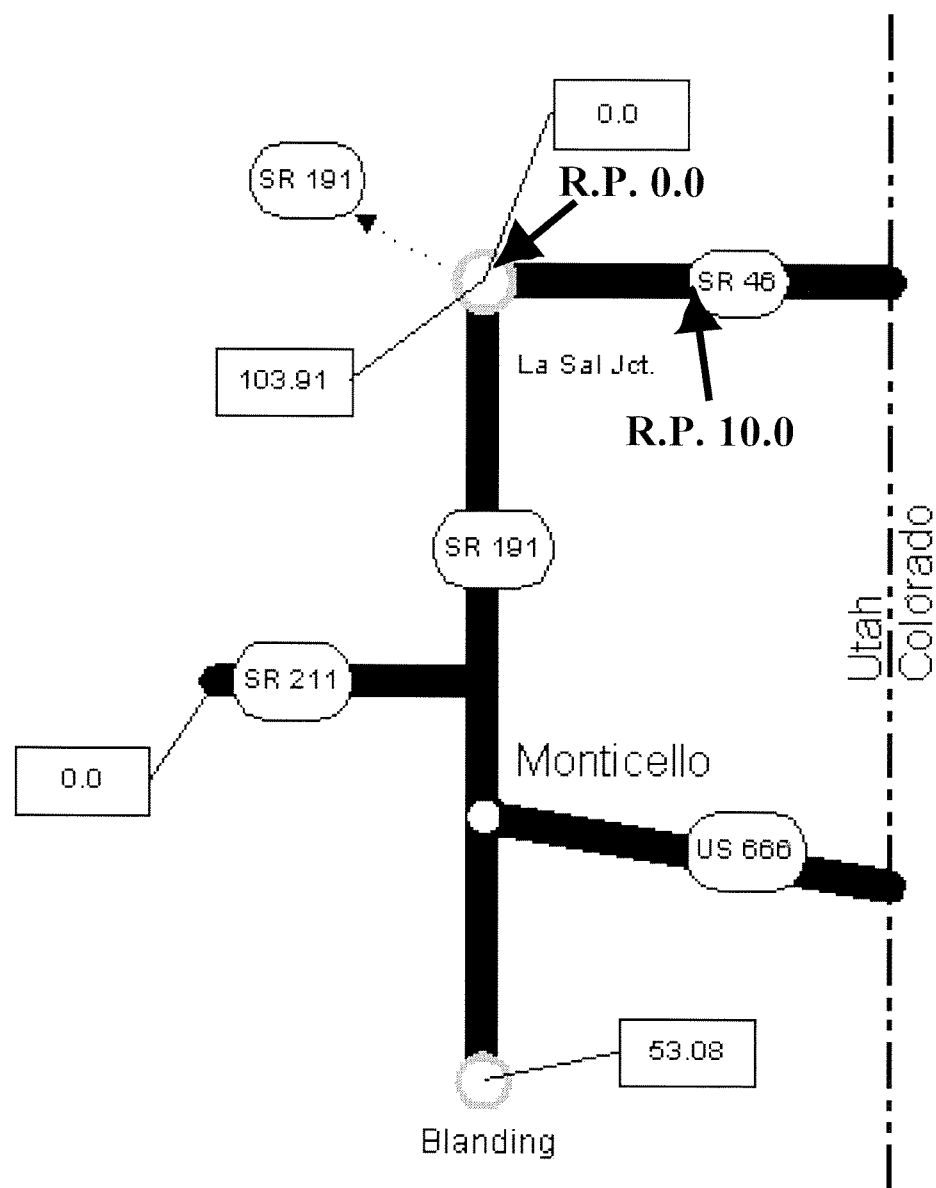
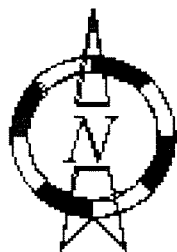
Version: 1

10 - ROADWAY

Alt Group: 0 Alt #: 0

Item Number	Description					Use Qty	Unit
012850010	Mobilization					1	Lump
Line/Sheet	From Station	From Offset	To Station	To Offset	Qty	Comment	
SR 46	0.00		10		1.0		
					1.0		
015540005	Traffic Control					1	Lump
Line/Sheet	From Station	From Offset	To Station	To Offset	Qty	Comment	
SR 46	0.00		10		1.0		
					1.0		
027650020	Pavement Message Paint					1	Each
Line/Sheet	From Station	From Offset	To Station	To Offset	Qty	Comment	
SR 46	0.00		0.010		8.0	Stop Bars and Turn Arrows (2 Applications)	
SR 46	9.16		9.86		24.0	School (2 Applications)	
					32.0		
027650050	Pavement Marking Paint					950	gal
Line/Sheet	From Station	From Offset	To Station	To Offset	Qty	Comment	
SR 46	0.00		10		950.0	Total Includes 2 Applications	
					950.0		
Note #	Note						
1	Assumed application rate 300ft/gal						
027850030	Chip Seal Coat, Type C					153,472	sq yd
Line/Sheet	From Station	From Offset	To Station	To Offset	Qty	Comment	
SR46	0.00		10		153,472.0		
					153,472.0		
027850070	Emulsified Asphalt HFMS-2					291	Ton
Line/Sheet	From Station	From Offset	To Station	To Offset	Qty	Comment	
SR 46	0.00		10		291.0		
					291.0		
Note #	Note						
1	Assumed 237 gal/ton Assumed application rate .45 gal/sq yd						

XI. Location Map



XIII. STANDARD DRAWINGS INDEX

(Change One, Dated 02/19/03)

UTAH DEPARTMENT OF TRANSPORTATION

U	NUMBER	TITLE	CURRENT DATE
		Advanced Traffic Management System (AT)	
	AT 1	Legend Sheet	07/03/02
	AT 2	Ramp Meter Details	07/03/02
	AT 3	Ramp Meter Sign Panel	07/03/02
	AT 4	Typical Ramp Meter Signal Head Mounting	07/03/02
	AT 5	Loop Installation	07/03/02
	AT 6	Conduit Details	07/03/02
	AT 7	Polymer-Concrete Junction Box Details	12/19/02
	AT 8	ATMS Cabinet w/120V Disconnect	07/03/02
	AT 9	ATMS Cab With Stepdown Transformer	07/03/02
	AT 10	Domed CCTV Details	07/03/02
	AT 11	CCTV Pole Detail	07/03/02
	AT 12	CCTV Pole Foundation For Dedicated CCTV Pole	07/03/02
	AT 13	120V VMS Cab Foundation Details	07/03/02
	AT 14	Weigh In Motion Piezo Detail	07/03/02
		Barriers (BA)	
	BA 1A	Precast Concrete Full Barrier Standard Section	12/19/02
	BA 1B	Precast Concrete Full Barrier Standard Section	12/19/02
	BA 2	Precast Concrete Half Barrier Standard Section	07/03/02
	BA 3	Cast In Place Constant Slope Barrier	12/19/02
	BA 4	Beam Guardrail Hardware	07/03/02
	BA 4A	Guardrail Transition	07/03/02
	BA 4B	Beam Guardrail Installation	12/19/02
	BA 4C	Beam Guardrail Anchor Type I	12/19/02
	BA 5	Traffic Control Cable	07/03/02

U	NUMBER	TITLE	CURRENT DATE
		Catch Basins and Cleanouts (CB)	
	CB 1	Standard Catch Basin	07/03/02
	CB 2	Curb Inlet Catch Basin	07/03/02
	CB 3	Standard Transition Concrete Lined Ditch To Pipe Or Diversion Box	07/03/02
	CB 4	Solid Cover For Standard Drawing DB 1 MS-18 Loading	07/03/02
	CB 5	Standard Screw Gate And Frame	07/03/02
	CB 6A	Standard Drop Inlet Details General Notes And Installation Detail	07/03/02
	CB 6B	Standard Catch Basin And Cleanout Box Drop Inlet Type "A" Details	07/03/02
	CB 6C	Standard Catch Basin And Cleanout Box Drop Inlet Type "B" Details	07/03/02
	CB 6D	Standard Catch Basin And Cleanout Box Drop Inlet Type "C" Details	07/03/02
	CB 6E	Standard Catch Basin And Cleanout Box Drop Inlet With Attached Apron Details	07/03/02
	CB 6F	Standard Catch Basin And Cleanout Box Drop Inlet With Attached Apron Details	07/03/02
	CB 6G	Standard Catch Basin And Cleanout Box Drop Inlet Type "D" Details	07/03/02
	CB 6H	Standard Catch Basin And Cleanout Box Drop Inlet Type "D" Tables	07/03/02
	CB 7	Standard Curb And Gutter Drop Inlet	07/03/02
	CB 8A	Double Catch Basin	07/03/02
	CB 8B	Double Catch Basin	07/03/02
	CB 9A	Standard Catch Basin and Cleanout Box Situation & Layout	07/03/02
	CB 9B	Standard Catch Basin and Cleanout Box Section Details	07/03/02
	CB 9C	Standard Catch Basin and Cleanout Box Schedule Of Installation 18" to 42" RCP 12" to 48" CMP	07/03/02
	CB 9D	Standard Catch Basin and Cleanout Box Schedule Of Installation 48" to 66" RCP 60" to 78" CMP	07/03/02
	CB 10A	Standard Catch Basin and Cleanout Box Situation & Layout	07/03/02
	CB 10B	Standard Catch Basin and Cleanout Box Section Details	07/03/02
	CB 10C	Standard Catch Basin and Cleanout Box Schedule Of Installation 42" to 60" RCP 48" to 72" CMP	07/03/02

U	NUMBER	TITLE	CURRENT DATE
		Crash Cushions (CC)	
	CC 1	Crash Cushion Markings	07/03/02
	CC 2	Crash Cushion Drainage Details Guideline A	07/03/02
	CC 3	Crash Cushion Drainage Details Guideline B	07/03/02
	CC 4	Details For Placement Crash Cushions Type A, B, & D	07/03/02
	CC 5	Grading And Placement Detail Crash Cushion Type C	07/03/02
	CC 6	Crash Cushion Type E Sand Barrel Details	12/19/02
	CC 7	Grading & Installation Details Crash Cushion Type F, Type G	07/03/02
	CC 8	Grading & Installation Detail Crash Cushion Type H	07/03/02
		Diversion Boxes (DB)	
	DB 1A	Standard Diversion Box/Cover Plate/Grating For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1B	Standard Diversion Box Hinged Lid Details For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1C	Standard Diversion Box Bicycle - Safe Grating Details For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1D	Standard Diversion Box Three Gate Box Sections For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1E	Standard Diversion Box Three Gate Box Sections For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1F	Standard Diversion Box Three Gate Box Sections For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 2A	Standard Diversion Box w/Interchangeable Walls, Bottom Slab, Walls and Apron Detail	07/03/02
	DB 2B	Standard Diversion Box w/Interchangeable Walls, Quantities Schedule	07/03/02
	DB 2C	Standard Diversion Box w/Interchangeable Walls, Hand Slide Gate Details	07/03/02
	DB 2D	Standard Diversion Box Type "G" Hand Slide Details	07/03/02
	DB 2E	Standard Diversion Box Hinged Lid (Solid Cover Plate) Type "A" Details Type I Plan	07/03/02
	DB 2F	Standard Diversion Box Hinged Lid (Solid Cover Plate) Type "A" Details Type II Plan	07/03/02
	DB 2G	Standard Diversion Box Hinged Lid Solid Cover Type "B" Details	07/03/02
	DB 2H	Standard Diversion Box Hinged Lid Solid Cover Type "B" & "C" Details	07/03/02

U	NUMBER	TITLE	CURRENT DATE
	DB 3A	Standard Diversion Box With Manhole Cover Situation And Layout	07/03/02
	DB 3B	Standard Diversion Box With Manhole Cover Up To 42" RCP and Up To 54" CMP	07/03/02
	DB 3C	Standard Diversion Box With Manhole Cover 48" - 72" RCP and 60" to 84" CMP	07/03/02
		Drainage (DG)	
	DG 1	Fill Height for Metal Pipe (Steel)	07/03/02
	DG 2	Fill Height for Metal Pipe (Aluminum)	07/03/02
	DG 3	Maximum Fill Height and End Sections For HDPE and PVC Pipes	12/19/02
	DG 4	Pipe Culverts Minimum Cover	12/19/02
	DG 5	Plastic Pipe, Metal Pipe or Pipe Arch Culvert Bedding	07/03/02
	DG 6	Precast Concrete Pipe Culvert	07/03/02
	DG 7	Gasketed Joints or Coupling Bands for C.M.P.	07/03/02
	DG 8	Metal Culvert End Sections	07/03/02
	DG 9	Miscellaneous Pipe Details	07/03/02
		Environmental Controls (EN)	
	EN 1	Temporary Erosion Control (Check Dams)	07/03/02
	EN 2	Temporary Erosion Control (Silt Fence)	07/03/02
	EN 3	Temporary Erosion Control (Slope Drain and Temporary Berm)	07/03/02
	EN 4	Temporary Erosion Control (Drop Inlet Barriers)	12/19/02
	EN 5	Temporary Erosion Control (Sediment Basin)	07/03/02
		Fence and Gates (FG)	
	FG 1A	Right-of-Way Fence and Gates (Wood Posts)	07/03/02
	FG 1B	Right-of-Way Fence and Gates (Wood Posts)	07/03/02
	FG 2A	Right-of-Way Fence and Gates (Metal Posts)	07/03/02
	FG 2B	Right-of-Way Fence and Gates (Metal Posts)	07/03/02
	FG 3	Swing Gates Type I for Gates Less Than 17'	07/03/02
	FG 4	Deer Gates	07/03/02
	FG 5	Swing Gates Type II for Gates Wider Than 17'	07/03/02

U	NUMBER	TITLE	CURRENT DATE
	FG 6	Chain Link Fence	07/03/02
		Grates, Frames, and Trash Racks (GF)	
	GF 1	Manhole Frame And Grated Cover	07/03/02
	GF 2	Manhole Frame And Solid Cover	07/03/02
	GF 3	Rectangle Grate & Frame	07/03/02
	GF 4	Directional Flow Grate & Frame	07/03/02
	GF 5	Solid Cover & Frame	07/03/02
	GF 6	Manhole Steps	07/03/02
	GF 7	Standard Screw Grate & Frame	07/03/02
	GF 8	2' x 2' Grate & Frame	07/03/02
	GF 9	28" x 24" Directional Flow and Frame	07/03/02
	GF 10	Standard Trash Racks 90E X-ing L	07/03/02
	GF 11	Standard Trash Racks	07/03/02
	GF 12	Standard Trash Racks	07/03/02
		General Road Work (GW)	
	GW 1	Raised Median and Plowable End Section	12/19/02
	GW 2	Concrete Curb and Gutter	07/03/02
	GW 3	Concrete Curb and Gutter Details	07/03/02
	GW 4	Concrete Driveways and Sidewalks	07/03/02
	GW 5	Pedestrian Access	07/03/02
	GW 6	Right-of-Way Marker	07/03/02
	GW 7	Newspaper and Mailbox Stop Layout	07/03/02
	GW 8	Newspaper and Mailbox Support Hardware	07/03/02
	GW 9	Delineation Hardware	07/03/02
	GW 10	Delineation Application	07/03/02
		Paving (PV)	
	PV 1	Joints for Highways with Concrete Traffic Lanes and Shoulders	07/03/02
	PV 2	Pavement/Approach Slab Details	12/19/02
	PV 3	Concrete Pavement Details for Urban and Interstate	07/03/02

State-Orange Book

U	NUMBER	TITLE	CURRENT DATE
	PV 4	Concrete Pavement Details for Urban and Interstate	07/03/02
	PV 5	Urban Concrete Pavement Details	07/03/02
	PV 6	Rumble Strips	07/03/02
	PV 7	Rumble Strips - Typical Application	07/03/02
		Signals (SL)	
	SL 1	Traffic Signals Mast Arm Pole and Luminaire Extension	07/03/02
	SL 2	Traffic Signals Mast Arm Detail 25' Thru 65'	07/03/02
	SL 3	Underground Service Pedestal Details	07/03/02
	SL 4	Traffic Signals Mast Arm Pole Foundation	07/03/02
	SL 5	Breakaway Post Mounted Traffic Signal Pole	07/03/02
	SL 6	Power Source Details	07/03/02
	SL 7	Span Wire Signal Pole Detail	07/03/02
	SL 8	Signal Head Details	07/03/02
	SL 9	Pedestrian Signal Assembly	07/03/02
	SL 10	Controller Base Details	07/03/02
	SL 11	Traffic Signals Loop Detector Detail	07/03/02
	SL 12	Junction Box Details	07/03/02
	SL 13	Traffic Counting Loop Detector Detail	12/19/02
	SL 14	Light Pole Breakaway Base	07/03/02
	SL 15	Luminaire Breakaway Base Detail	07/03/02
	SL 16	Single Transformer Substation Details	07/03/02
	SL 17	Light Pole Anchor Base	07/03/02
	SL 18	Light Pole Foundation Extension	07/03/02
		Signs (SN)	
	SN 1	Bridge Load Limit Signs	07/03/02
	SN 2	Flashing School Sign	12/19/02
	SN 3	Overhead School Flasher	07/03/02
	SN 4	Flashing Stop Sign	12/19/02
	SN 5	Typical Installation for Milepost Signs	12/19/02

U	NUMBER	TITLE	CURRENT DATE
	SN 6	Not Used	
	SN 7	Placement of Ground Mounted Signs	07/03/02
	SN 8	Ground Mounted Timber Sign Post (P1)	12/19/02
	SN 9	Ground Mounted Tubular Steel Sign Post (P2)	07/03/02
	SN 10	Ground Mounted Square Steel Sign Post (P3)	07/03/02
	SN 11	Slipbase Ground Mounted Tubular Steel Sign Post (P4)	07/03/02
	SN 12A	Ground Mounted Sign Installation Details	07/03/02
	SN 12B	Ground Mounted Sign Installation Details	07/03/02
	SN 12C	Ground Mounted Sign Installation Details	07/03/02
		Striping (ST)	
	ST 1	Object Markers "T" Intersection & Pavement Transition Guidance	12/19/02
	ST 2	Freeway Turn Around Markings	07/03/02
	ST 3	Typical Pavement Markings	07/03/02
	ST 4	Crosswalks, Parking and Intersection Approaches	07/03/02
	ST 5	Painted Median & Auxiliary Lane Details	07/03/02
	ST 6	Passing/Climbing Lanes Traffic Control	07/03/02
	ST 7	Pavement Markings & Signs at Railroad Crossing	12/19/02
	ST 8	Plowable Pavement Markers	07/03/02
		Structures and Walls (SW)	
	SW 1A	Welded End Guard Unit	07/03/02
	SW 1B	Precast Concrete Cattle Guard	07/03/02
	SW 2	Noise Wall Placement Area	07/03/02
	SW 3A	Precast Concrete Noise Wall 1 of 2	12/19/02
	SW 3B	Precast Concrete Noise Wall 2 of 2	12/19/02
	SW 4A	Precast Concrete Retaining/Noise Wall 1 of 2	12/19/02
	SW 4B	Precast Concrete Retaining/Noise Wall 2 of 2	07/03/02
		Traffic Control (TC)	
X	TC 1A	Construction Zone Channelization Devices	07/03/02

State-Orange Book

U	NUMBER	TITLE	CURRENT DATE
X	TC 1B	Construction Zone Signing	07/03/02
X	TC 2A	Traffic Control General	07/03/02
X	TC 2B	Traffic Control General	07/03/02
X	TC 3	Traffic Control Project Limit Signing	07/03/02
X	TC 4	Traffic Control Urban Intersections With Roadways Under 50 MPH	07/03/02
X	TC 5	Traffic Control Urban Intersections With Roadways Under 50 MPH	07/03/02
X	TC 6	Traffic Control Pedestrian Routing	07/03/02
X	TC 7	Traffic Control Road Closed, Detour	07/03/02
X	TC 8	Traffic Control Lane Closure	07/03/02
X	TC 9	Traffic Control Multilane Closure	07/03/02
	TC 10	Traffic Control Expressway And Freeway Crossover/Turn-Around	07/03/02
	TC 11	Traffic Control Exit Ramp Gore	07/03/02
	TC 12	Traffic Control Entrance Ramp Gore	07/03/02
X	TC 13	Traffic Control Shoulder-Haul Road	07/03/02
X	TC 14	Traffic Control Flagging Operation	07/03/02
X	TC 15	Traffic Control 2 Lane/ 2 Way Seal Coat With Cover Material	07/03/02
X	TC 16	Traffic Control Pavement Marking	07/03/02

XIV. Special Provisions

SPECIAL PROVISION

SP-0046(7)0

SECTION 00555 M

PROSECUTION AND PROGRESS

Add the following to line A paragraph 1.12, Limitation of Operations:

3. Limit lane closures to a maximum total length of 5.0 miles.
4. Shorten lengths of lane closures, if necessary, to allow for complete clearing of traffic queues for each cycle of flagging and/or pilot car operations. Do not hold the first vehicle in each queue for more than 20 minutes.
5. Clean up and remove all waste material daily.

Delete line B article 1.12, Limitation of Operations and replace with the following:

- B. Saturdays, Sundays, holidays or holiday weekends (holiday weekend is defined as a Friday, Saturday and Sunday in consecutive sequence with a holiday): Perform no work without written approval except repair or servicing of equipment, protection of work, maintenance or curing of concrete, or maintenance of traffic.

Add to article 1.12, Limitation of Operations:

- C. Provide the Region Four Public Involvement Coordinator with two (2) weeks notice of beginning and ending construction.
Phone: (435)893-4702
FAX: (435)896-6458

Add to article 1.15, "Determining Contract Time":

- C. Complete the project in 10 working days:
 1. Time charges start when work begins on the project or on June 16, 2003, whichever occurs first.

SPECIAL PROVISION

SP-0046(7)0

SECTION 00725 M

SCOPE OF WORK

(Add the following to section 00725)

1.23 GENERAL INFORMATION

- A:** This project includes a Chip Seal Coat on SR-46 from R.P. 0.0 to R.P. 10.0.
- B:** The Utah Department of Transportation reserves the right to cancel all or portions of this contract, based on budgetary conditions and available funds.
- C.** 2 applications of Pavement Marking Paint will be required. The first application will be applied the same day as the Flush Coat and the second as directed by the Engineer.

SPECIAL PROVISION

SP-0046(7)0

SECTION 01554 M

Traffic Control

(Add the following to section 2.2)

2.2 Flagger Equipment and Clothing

- D. Flaggers will be required to have radio contact with each other to communicate emergency vehicle access through project at all times.

SPECIAL PROVISION
Project No.SP-0046(7)0

SECTION 02742 S

PROJECT SPECIFIC SURFACING REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Required PG Asphalt or emulsion.
- B. Number of gyrations to use for Superpave Mix Design.

PART 2 PRODUCTS

2.1 MIXES

- A. Hot Mix Asphalt (HMA): (Refer to bid item for size)
 - 1. PG _____ Asphalt.
 - 2. N_{initial} _____ N_{design} _____ N_{final} _____
- B. Open-Graded Surface Course:
 - 1. PG _____ Asphalt.
- C. Chip Seal
 - 1. Type of asphalt emulsion HFMS-2 _____

PART 3 EXECUTION Not used.

END OF SECTION

SPECIAL PROVISION**SP-0046(7)0****SECTION 02745M****ASPHALT MATERIAL****Delete Tables 2, 4, and 5 and replace with the following:****Table 2**

Latex Modified Cationic Rapid Setting Emulsified Asphalt (LMCRS-2)			
Tests	AASHTO Test Method	Min.	Max.
Emulsion			
Viscosity, SFS, 122 EF (50 EC), Sec	T59	75	300
Settlement (a) 5 days, percent	T 59		5
Storage Stability Test (b) 1 d, 24 h, percent	T 59		1
Demulsibility (c) 35 ml, 0.8% sodium dioctyl Sulfosuccinate, percent	T 59	40	
Particle Charge Test	T 59	Positive	
Sieve Test, percent	T 59		0.3
Distillation			
Oil distillate, by vol of emulsion, percent			0
Residue (d), percent		65	
Residue from Distillation Test			
Penetration, 77EF (25EC), 100 g, 5 s, dmm	T 49	40	200
Torsional Recovery, (e)		18	
(a) The test requirement for settlement may be waived when the emulsified asphalt is used in less than a five-day time; or the purchaser may require that the settlement test be run from the time the sample is received until it is used, if the elapsed time is less than 5 days. (b) May use the 24-hour (1-day) storage stability test instead of the five-day settlement test. (c) Make the demulsibility test within 30 days from date of shipment. (d) Determine distillation by AASHTO T 59, with modifications to include a 350 ± 5 EF (177 \pm 3EC) maximum temperature to be held for 15 minutes. (e) CA 332 (California Test Method). Co-mill latex and asphalt during the emulsification process.			

Table 4

High Float Medium Setting Emulsified Polymerized Asphalt (HFMS-2P) (a)			
Tests	AASHTO Test method	Min.	Max.
Emulsion			
Viscosity , SSF ,122EF(50EC), sec (Project Site Acceptance/Rejection Limits)	T 59	100	450
Storage Stability Test (a) 1 d, 24 h, percent	T 59		0.1
Sieve Test, percent	T 59		0.1
Distillation			
Oil distillate, by vol of emulsion, percent	T 59	1	7
Residue (c), percent	T 59	65	
Residue from Distillation Test			
Penetration, 77EF(25EC), 100 g, 5 s, dmm	T 49	70	300
Float Test, 140EF(60EC), sec	T 50	1200	300
Solubility in trichloroethylene, percent	T 44	97.5	
Elastic Recovery, 77EF(25EC), percent	T 301	50	
<p>(a) Supply an HFMS-2SP (anionic, polymerized, high-float) as an emulsified blend of polymerized asphalt cement, water, and emulsifiers. Polymerize the asphalt cement with a minimum of 3.0% polymer by weight of the asphalt cement prior to emulsification. After standing undisturbed for a minimum of 24 hours, the emulsion shall be smooth and homogeneous throughout with no white, milky separation, pumpable, and suitable for application through a distributor.</p> <p>(b) May use the 24-hour (1-day) storage stability test instead of the five-day settlement test.</p> <p>(c) Determine the distillation by AASHTO T 59, with modifications to include a 350 ± 5 EF (177\pm3EC) maximum temperature to be held for 15 minutes.</p>			

Table 5

High Float Rapid Setting Emulsified Polymerized Asphalt (HFRS-2P) (a)			
Tests	AASHTO Test method	Min.	Max.
Emulsion			
Viscosity, SFS @ 122EF(50EC), sec (Project Site Acceptance/Rejection Limits)	T 59	100	450
Storage Stability Test (a) 1 d, 24 h, percent	T 59		1
Demulsibility (b) 0.02 N Ca Cl ₂ , percent	T 59	40	
Sieve Test, percent	T 59		0.1
Distillation			
Oil distillate, by vol of emulsion, percent	T 59		3
Residue (c), percent	T 59	65	
Residue from Distillation Test			
Penetration, 77EF(25EC), 100 g, 5 s, dmm	T 49	70	150
Float Test, 140EF(60EC), sec	T 50	1200	
Solubility in trichloroethylene, percent	T 44	97.5	
Elastic Recovery, 77EF(25EC), percent	T 301	58	
<p>(a) Supply an HFMS-2SP (anionic, polymerized, high-float) as an emulsified blend of polymerized asphalt cement, water, and emulsifiers. Polymerize the asphalt cement with a minimum of 3.0% polymer by weight of the asphalt cement prior to emulsification. After standing undisturbed for a minimum of 24 hours, the emulsion shall be smooth and homogeneous throughout with no white, milky separation, pumpable, and suitable for application through a distributor.</p> <p>(b) May use the 24-hour (1-day) storage stability test instead of the five-day settlement test.</p> <p>(c) Determine the distillation by AASHTO T 59, with modifications to include a 350 ± 5 EF (177±3EC) maximum temperature to be held for 15 minutes.</p>			

SPECIAL PROVISION

SP-0046(7)0

SECTION 02785M

CHIP SEAL COAT

Delete Articles 3.2 and 3.5 and replace with the following:

3.2 LIMITATIONS

- A. Complete all work, excluding bituminous flush coat, between May 15 and August 31.
- B. Provide a minimum of 0.5 lbs/yd² blotter material meeting the requirements of Section 02748 and application equipment at the project site prior to beginning seal coat work. Application equipment is subject to inspection and approval by the Engineer
- C. Do not place any chip seal coat if the Engineer determines that excess moisture is present in the pavement structure.
- D. Place seal coat when:
 - 1. Pavement temperature is between 80 degrees F and 136 degrees F.
 - 2. Air temperature is 70 degrees F and rising in the shade.
- E. Complete all chip seal operations, including sweeping, during daylight hours.
- F. On interstate routes, do not open to traffic the same day chip seal coat is placed.
 - 1. Sweep and open to traffic no earlier than 14 hours after placing cover material.
- G. Apply bituminous flush coat material no earlier than 14 days after the application of the cover material, or as directed by the Engineer.
 - 1. Apply bituminous flush coat material when the air temperature in the shade is 50 degrees F and rising.
 - 2. Do not apply bituminous flush coat material during fog, rain, or other adverse conditions.

3.5 ASPHALT MATERIAL /COVER MATERIAL APPLICATION

- A. Use a distributor equipped with a hydrostatic system capable of maintaining a tolerance of ± 0.03 gal/yd².
 - 1. Spray the application at a rate sufficient to obtain 50 percent chip embedment before the rolling operation.
 - 2. Application rates may vary throughout the project depending on existing conditions.
 - 3. Equipment is subject to inspection and approval by the Engineer.
- B. Apply the asphalt emulsion at a minimum temperature of 145 degrees F.
- C. Place building paper adjacent to the transverse construction joint prior to starting each spraying operation. Maintain the control valve to act instantaneously, both in start-up and cut-off.
- D. Locate longitudinal joints within 6 inches of the traffic lane line location. Construct the meet lines with no skips or voids between adjacent passes. Avoid a double thickness of cover material.
- E. Spread the cover material maintaining a tolerance of ± 1.0 lb/yd².
 - 1. Equipment is subject to inspection and approval by the Engineer.
- F. Calibrate the spreader at the beginning of each day and as often as required.

Approximate Spread Rates

Unit Weight lbs/ft³	Application Rate lbs/yd²
60 - 65	17.0
65 - 70	18.4
70 - 75	19.8
75 - 80	20.7
80 - 85	22.1
85 - 90	23.5
90 - 95	24.9
95 - 100	25.8

END OF SECTION